

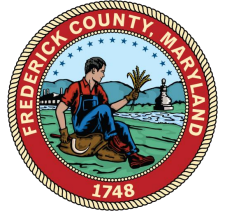
Toward a More Sustainable Frederick County

Electric Vehicles

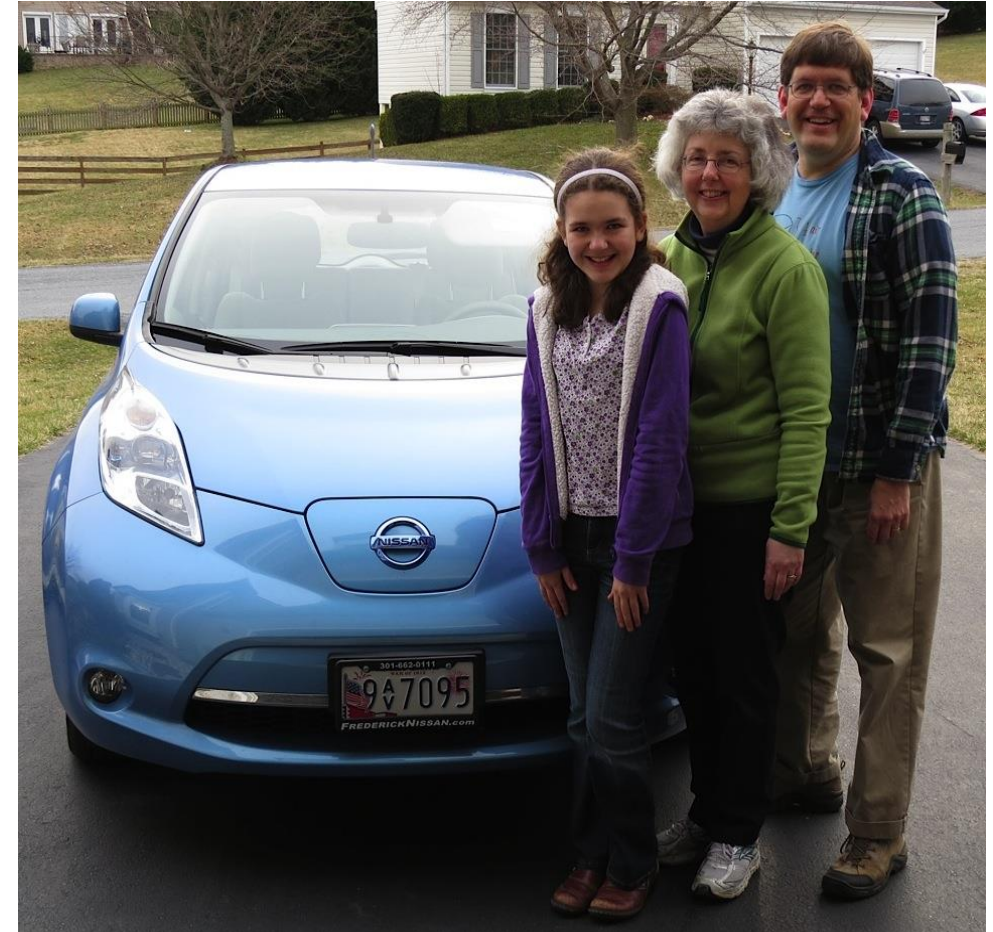
October 16, 2015



Ron Kaltenbaugh

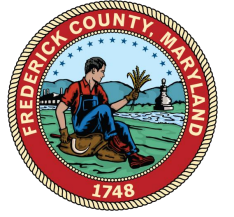


- 12 Year Resident of Frederick County
- 30 Year Tenure in the IT Industry, Masters degree in Computer Science
- Frederick County Sustainability Commission Member
- Currently President of the Electric Vehicle Association of Greater DC (evadc.org)
- Homes coordinator for the MD/DC Tour of Solar and Green Homes





Electric Vehicles

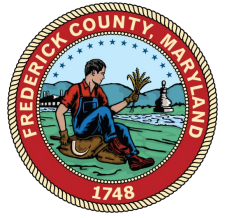


Available from many manufacturers with Full Battery Electric and Plug-in Hybrid models





Residential Solar and Electric Vehicles

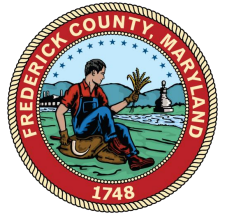


- Residential solar can provide power for your electric vehicle.
- Studies vary, but, indicate that 20% to 40% of EV owners also have solar.
- A pollution-free way to power a car that also saves money over the long run. Plus it does not send “Petro Dollars” to often unfriendly parts of the world.

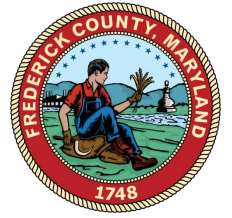




Electric Vehicle Benefits

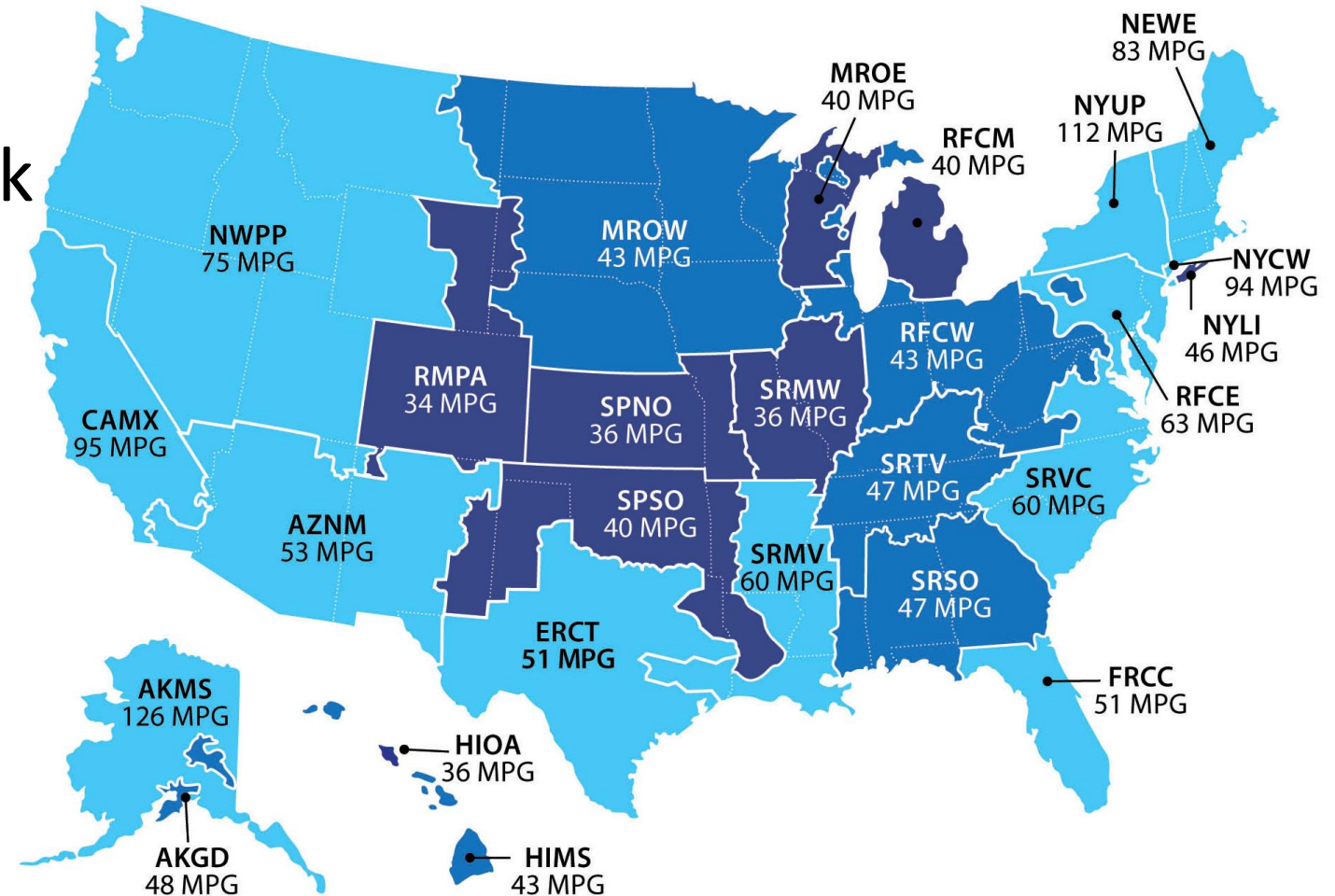


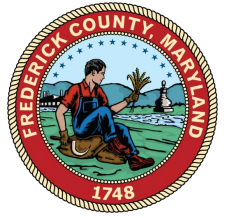
- Much lower fuel and operating costs
 - EV's 4 cents per mile
 - Gasoline cars 15 to 30 cents per mile
- Quiet; No gasoline fumes
- Instant torque means very good to fantastic acceleration
- Much cleaner than ICE (Internal Combustion Engine) cars
- U.S. generated electricity instead of foreign oil



Electric Vehicle Myths

- Myth: EV's just replace a tailpipe with a smokestack
 - EV's powered from the grid are cleaner than even a Prius in most of the U.S.
 - The electric grid is getting cleaner every year
 - Solar/Wind an option for many people



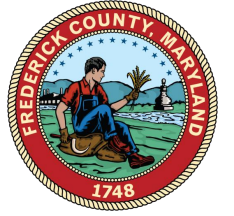


Electric Vehicle Myths

- Myth: Not Enough Range
 - Most Americans drive less than 40 miles per day, less than the typical 80 mile range of most EVs. If a full electric doesn't work for you, then a plug-in hybrid is a great option.
 - Affordable, 150 – 200 mile range EV's will be available soon.
- Myth: Too complicated
 - An EV has far fewer parts than gasoline cars.
 - Gasoline engines require far more maintenance.
 - Electric motors and batteries are common items, well understood, and have been around for over 100 years.



QUESTIONS?



Join Me in the Panel Discussion.

Thank You!

-- Ron

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